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We claim:

and

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3 4 A method of transmitting data comprising the steps of:

channel coding an encoder packet to produce a channel coded encoder packet;

puncturing and/or repeating the channel coded encoder packet to produce a first encoder sub-packet having a first size based on a size of the encoder packet and a first data transmission rate at which the first encoder sub-packet is to be transmitted.

- The method of claim 1, wherein the first data transmission rate is based on first channel conditions measured at a receiver to which the first encoder sub-packet is intended.
- The method of claim 1, wherein the first encoder sub-packet has a format which allows the first encoder sub-packet to be soft combined with a second encoder sub-packet derived from the same encoder packet as the first encoder sub-packet.
 - 4. The method of claim 3, wherein the first encoder sub-packet is of a different size than the second encoder sub-packet.
 - 5. The method of claim 3, wherein the first encoder sub-packet is of an identical size than the second encoder sub-packet.
- 1 6. The method of claim 1 comprising the additional step of:
 - adding a first encoder packet size identifier to the first encoder sub-packet indicating the size of the encoder packet from which the first encoder sub-packet was derived.
- 1 7. The method of claim 6 comprising the additional step of:
- transmitting the first encoder sub-packet with the first encoder packet size identifier at the first data transmission rate.
- The method of claim 7, wherein the first encoder sub-packet with the first encoder packet size identifier is modulated using a modulation scheme based on the first data transmission rate.

I	9.	The method of claim / comprising the additional step of:
2		prior to the step of transmitting the first encoder sub-packet, transmitting a rate
3		indication message to a receiver to which the first encoder sub-packet is intended
4		indicating the first data transmission rate.
. 1	10.	The method of claim 1 comprising the additional step of:
2		adding an encoder sub-packet format identifier to the first encoder sub-packet
3		indicating a first format of the first encoder sub-packet.
	1.	
1	11.	The method of claim 10 comprising the additional step of:
2		transmitting the first encoder sub-packet with the first encoder sub-packet format
3		identifier at the first data transmission rate.
1	12.	The method of claim 11, wherein the first encoder sub-packet with the first encoder sub-
2		packet format identifier is modulated using a modulation scheme based on the first data
3		transmission rate.
1	13.	The method of claim 11 comprising the additional step of:
2		prior to the step of transmitting the encoder sub-packet, transmitting a first rate
3		indication message to a receiver to which the first encoder sub-packet is intended
4		indicating the first data transmiss on rate.
1	14.	The method of claim 1 comprising the additional step of:
2		prior to the step of puncturing and/or repeating the channel coded encoder
3		packet, receiving a first rate indication message from a receiver to which the encoder
4		packet is intended indicating a data rate based on first channel conditions measured at the
5		receiver.
1	15.	The method of claim 14 comprising the additional step of:
2		determining the first data transpossion rate using the data rate indicated in the
3		first fate indication message.
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\1	16-	The method of claim 15 comprising the additional step of:



2		transmitting a new rate message to the intended receiver indicating the first data
3		transmission rate.
1	17.	The method of claim 1 comprising the additional steps of:
2		receiving a NACK message indicating that a transmission of the encoder sub-
3		packet was not successfully received at a receiver to which the first encoder sub-packet
4		was intended; and
5		puncturing and/or repeating the channel coded encoder packet to produce a
6		second encoder sub-packet having a second size based on a size of the encoder packet
7		and a second data transmission rate at which the second encoder sub-packet is to be
8		transmitted.
1	1/8 .	A method of receiving a data transmission comprising the steps of:
2	/	receiving at a receiver a message indicating a first data transmission rate;
3		receiving a first encoder sub-packet with a first encoder packet size identifier
4		indicating a size of the first encoder sub-packet; and
5		decoding the first encoder sub-packet using the first encoder packet size
6		identifier and the first data transmission rate.
1	19.	The method of claim 18 comprising the additional step of:
2		transmitting a negative acknowledgement message and a rate indication message
3		if the first encoder sub-packet can not be successfully decoded, wherein the rate
4		indication message indicates current channel conditions at the receiver.
1	20.	The method of claim 19, comprising the additional steps of:
2	-	receiving a message indicating a second data transmission rate;
3		receiving a second encoder sub-packet with a second encoder packet size
4		identifier indicating a size of the second encoder sub-packet; and
5		decoding the second encoder sub-packet using the second data transmission rate,
6		the second encoder packet size identifier and the first encoder sub-packet.
1	21.	A method of receiving a data transmission comprising the steps of:
2	/	receiving at a receiver a message indicating a first data transmission rate;

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3		receiving a first encoder sub-packet with a first encoder sub-packet format
4		identifier indicating a format of the first encoder sub-packet; and
5		decoding the first encoder sub-packet using the first encoder sub-packet format
6		identifier and the first data transmission rate.
1	22.	The method of claim 21 comprising the additional step of:
2		transmitting a negative acknowledgement message and a rate indication message
3		if the first encoder sub-packet can not be successfully decoded, wherein the rate
4		indication message indicates current channel conditions at the receiver.
1	23.	The method of claim 22, comprising the additional steps of:
2		receiving a message indicating a second data transmission rate;
3		receiving a second encoder sub-packet with a second encoder sub-packet format
4		identifier encoder sub-packet indicating a format of the second encoder sub-packet; and
5		decoding the second encoder sub-packet using the second data transmission rate,
6		the second encoder sub-packet format identifier and the first encoder sub-packet.